EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	90080	"707"/("3,9").ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 12:58
L2	3	713/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 16:14
L3	3	713/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:01
L4	131	1 and foreign near key same relational near database$1 and @ad<"20010727"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:13
L5	93	4 and primary near key	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:04
L6	6	5 and access adj control	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:05
L7	1	6 and (downstrean or upstream)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 16:15
L8	6	("6275824" "6268850" "5911143").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:12
L9	0	8 and (downstrean or upstream)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:06
L10	429	(prevent$3 or restrict$3) same upstream same downstream same access$3 and @ad<"20010727"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:09
L11	26	1 and 10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:15

EAST Search History

L12	215	foreign near key same relational near database$1 and @ad<"20010727"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:10
L13	41	12 and control$4 with access	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 16:18
L14	95	4 and (SQL or (structured adj3 query adj3 language))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:14
L15	0	14 and (relational adj3 access adj3 table)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:15
L16	0	11 and (privileged adj3 access$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:16
L17	91	1 and (privileged adj3 access$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:16
L18	0	2 and 17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:16
L19	3	Parent near patrice	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 13:41
L20	386	713/194.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 16:17
L21	16	20 and 1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 16:15
L22	12	20 and (downstrean or upstream)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 16:18
L23	957	713/189.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 16:17

EAST Search History

L24	442	23 and control$4 with access	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 16:18
L25	15	24 and (downstrean or upstream)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/09 16:18

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1 Oracle media server: providing consumer based interactive access to multimedia data

Andrew Laursen, Jeffrey Olkin, Mark Porter

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, citings, index terms

Currently, most data accessed on large servers is structured data stored in traditional databases. Networks are LAN based and clients range from simple terminals to powerful workstations. The user is corporate and the application developer is an MIS professional.With the introduction of broadband communications to the home and better than 100-to-1 compression techniques, a new form of network-based computing is emerging. Structured data is still important, but the bulk of data b ...

2 Hierarchically-organized, multihop mobile wireless networks for quality-of-service support

Ram Ramanathan, Martha Steenstrup

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(429.81 KB) Additional Information: full citation, abstract, references, citings, index terms

MMWN is a modular system of adaptive link- and network-layer algorithms that provides a foundation on which to build mechanisms for quality-of-service provision in large, multihop mobile wireless networks. Such networks are a practical means for creating a communications infrastructure where none yet exists or where the previously existing infrastructure has been severely damaged. These networks provide communications for such diverse purposes as tactical maneuvering and strategic planning ...

3 Information systems outsourcing: a survey and analysis of the literature

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references

In the last fifteen years, academic research on information systems (IS) outsourcing has

evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

4 Design and evaluation of a wide-area event notification service

August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provid ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

5 Semantics, ontologies & enterprise integration track: Efficient integration of web services with distributed data flow and active mediation

David Liu, Jun Peng, Kincho H. Law, Gio Wiederhold

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Publisher: ACM Press

Full text available: pdf(254.77 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a loosely coupled service-composition paradigm. This paradigm employs a distributed data flow that differs markedly from centralized information flow adopted by current service integration frameworks, such as CORBA, J2EE and SOAP. Distributed data flows support direct data transmission to avoid many performance bottlenecks of centralized processing. In addition, active mediation is used in applications employing multiple web services that are not fully compatible in terms of ...

Keywords: active mediation, direct data transmission, handheld services, mobile class, service integration, web services

6 Aurora: a new model and architecture for data stream management

Daniel J. Abadi, Don Carney, Ugur Çetintemel, Mitch Cherniack, Christian Convey, Sangdon Lee, Michael Stonebraker, Nesime Tatbul, Stan Zdonik

August 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(585.97 KB) Additional Information: full citation, abstract, citings, index terms

Abstract.This paper describes the basic processing model and architecture of Aurora, a new system to manage data streams for monitoring applications. Monitoring applications differ substantially from conventional business data processing. The fact that a software system must process and react to continual inputs from many sources (e.g., sensors)

rather than from human operators requires one to rethink the fundamental architecture of a DBMS for this application area. In this paper, we present Aur ...

Keywords: Continuous queries, Data stream management, Database triggers, Quality-of-service, Real-time systems

7 IP multicast channels: EXPRESS support for large-scale single-source applications

Hugh W. Holbrook, David R. Cheriton

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '99**, Volume 29 Issue 4

Publisher: ACM Press

Full text available: pdf(1.66 MB) Additional Information: full citation, abstract, references, citings, index terms

In the IP multicast model, a set of hosts can be aggregated into a group of hosts with one address, to which any host can send. However, Internet TV, distance learning, file distribution and other emerging large-scale multicast applications strain the current realization of this model, which lacks a basis for charging, lacks access control, and is difficult to scale.This paper proposes an extension to IP multicast to support the *channel* model of multicast and describes a specific realizat ...

8 Analogical reasoning for knowledge discovery in a molecular biology database

Juergen Haas, Jeffrey S. Aaronson, G. Christian Overton

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(1.28 MB) Additional Information: full citation, references, index terms

9 Universal access architecture for digital libraries

Francisco Alvarez-Cavazos, Roberto Garcia-Sanchez, David Garza-Salazar, Juan C. Lavariega, Lorena G. Gomez, Martha Sordia

October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**

Publisher: IBM Press

Full text available: pdf(399.35 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present a universal access architecture for digital libraries. Our architecture supports traditional fixed clients and mobile clients addressing the connection adaptation and limited resources challenges presented by mobile devices. We describe the requirements of universally available personal digital libraries and illustrate their applicability with a user scenario. These requirements are addressed by our universal access architecture, which targets to support multiple device ...

10 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-

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11 Run-time adaptation in river

Remzi H. Arpaci-Dusseau
February 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(849.04 KB) Additional Information: full citation, abstract, references, index terms

We present the design, implementation, and evaluation of run-time adaptation within the River dataflow programming environment. The goal of the River system is to provide adaptive mechanisms that allow database query-processing applications to cope with performance variations that are common in cluster platforms. We describe the system and its basic mechanisms, and carefully evaluate those mechanisms and their effectiveness. In our analysis, we answer four previously unanswered and important que ...

Keywords: Performance availability, clusters, parallel I/O, performance faults, robust performance, run-time adaptation

12 An open architecture for next-generation telecommunication services

Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming
February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1
Publisher: ACM Press
Full text available: pdf(237.24 KB) Additional Information: full citation, abstract, references, citings, index terms

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many deficiencie ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

13 Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne
July 1985 **ACM SIGART Bulletin**, Issue 93
Publisher: ACM Press
Full text available: pdf(5.13 MB) Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

14 The evolution of the corporate IT function and the role of the CIO at Texaco: how do

perceptions of IT's performance get formed?
Rudy Hirschheim, Jaana Porra, Michael S. Parks
November 2003 **ACM SIGMIS Database**, Volume 34 Issue 4
Publisher: ACM Press
Full text available: pdf(372.21 KB) Additional Information: full citation, abstract, references, index terms

While senior management's confidence in the IT function and the CIO appears to be at an all time low, the field's understanding of why this condition exists is still confused. This paper suggests that the problem lies in how perceptions about IT are formed. To this end, the paper briefly looks at the growth and evolution of the corporate IT department at the oil giant Texaco, Inc. The analysis paints a somewhat disturbing picture of a top performing IT organization, intimately responsible for th ...

Keywords: IT function history, IT management, evolution of the CIO's role, evolution of the IT function, perception formulation, perception gap

15 Credit-based flow control for ATM networks: credit update protocol, adaptive credit allocation and statistical multiplexing
H. T. Kung, Trevor Blackwell, Alan Chapman
October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications SIGCOMM '94**, Volume 24 Issue 4
Publisher: ACM Press
Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents three new results concerning credit-based flow control for ATM networks: (1) a simple and robust credit update protocol (CUP) suited for relatively inexpensive hardware/software implementation; (2) automatic adaptation of credit buffer allocation for virtual circuits (VCs) sharing the same buffer pool; (3) use of credit-based flow control to improve the effectiveness of statistical multiplexing in minimizing switch memory. These results have been substantiated by analysi ...

16 Timely and fault-tolerant data access from broadcast disks: a pinwheel-based approach
Sanjoy Baruah, Azer Bestavros
November 1996 **Proceedings of the workshop on on Databases: active and real-time**
Publisher: ACM Press
Full text available: pdf(374.22 KB) Additional Information: full citation, references, index terms

17 Measurement: The impact of address allocation and routing on the structure and implementation of routing tables
Harsha Narayan, Ramesh Govindan, George Varghese
August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**
Publisher: ACM Press
Full text available: pdf(148.92 KB) Additional Information: full citation, abstract, references, index terms

The recent growth in the size of the routing table has led to an interest in quantitatively understanding both the causes (*eg* multihoming) as well as the effects (*eg* impact on router lookup implementations) of such routing table growth. In this paper, we describe a new model called **ARAM** that defines the structure of routing tables of any given size. Unlike simpler empirical models that work backwards from effects (*eg* current prefix length distributions), **ARAM** a ...

Keywords: IP lookups, modeling, routing tables

18 Locating internet bottlenecks: algorithms, measurements, and implications

Ningning Hu, Li (Erran) Li, Zhuoqing Morley Mao, Peter Steenkiste, Jia Wang
August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4
Publisher: ACM Press
Full text available: pdf(395.45 KB) Additional Information: full citation, abstract, references, index terms

The ability to locate network bottlenecks along end-to-end paths on the Internet is of great interest to both network operators and researchers. For example, knowing where bottleneck links are, network operators can apply traffic engineering either at the interdomain or intradomain level to improve routing. Existing tools either fail to identify the *location* of bottlenecks, or generate a large amount of probing packets. In addition, they often require access to both end points. In this pa ...

Keywords: active probing, available bandwidth, bottleneck location, packet train

19 MRNet: A Software-Based Multicast/Reduction Network for Scalable Tools

Philip C. Roth, Dorian C. Arnold, Barton P. Miller
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society
Full text available: pdf(176.52 KB) Additional Information: full citation, abstract

We present MRNet, a software-based multicast/reduction network for building scalable performance and system administration tools. MRNet supports multiple simultaneous, asynchronous collective communication operations. MRNet is flexible, allowing tool builders to tailor its process network topology to suit their tool's requirements and the underlying system's capabilities. MRNet is extensible, allowing tool builders to incorporate custom data reductions to augment its collection of built-in reduc ...

Keywords: Scalability, tools, multicast, reduction, aggregation

20 Session summaries from the 17th symposium on operating systems principle (SOSP'99)

Jay Lepreau, Eric Eide
April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: pdf(3.15 MB) Additional Information: full citation, index terms

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1 Oracle media server: providing consumer based interactive access to multimedia data

Andrew Laursen, Jeffrey Olkin, Mark Porter

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, citings, index terms

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2 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

3 The ObjectStore database system

Charles Lamb, Gordon Landis, Jack Orenstein, Dan Weinreb

October 1991 **Communications of the ACM**, Volume 34 Issue 10

Publisher: ACM Press

Full text available: pdf(6.73 MB) Additional Information: full citation, references, citings, index terms

Keywords: C++, ObjectStore, database (persistent) programming languages, object-oriented programming

4 Information systems outsourcing: a survey and analysis of the literature

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka
November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4
Publisher: ACM Press
Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

5 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press
Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

6 Implementing role based access control for federated information systems on the web

Kerry Taylor, James Murty
January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 CRPITS '03**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(217.89 KB) Additional Information: full citation, abstract, references, citings, index terms

There is rapidly increasing interest in Australia in on-line sharing of information stored in corporate databases, especially within and between staff of independent government agencies. Biological collections databases and population health GIS are good examples of the frequent situation where database custodians are looking for dynamic, distributed, heterogenous federated information system models for information sharing within loosely constituted communities. This paper describes a security m ...

Keywords: RBAC, federated databases

7 Requirements interaction management

William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov
June 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 2
Publisher: ACM Press
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

Requirements interaction management (RIM) is the set of activities directed toward the discovery, management, and disposition of critical relationships among sets of requirements, which has become a critical area of requirements engineering. This survey looks at the evolution of supporting concepts and their related literature, presents an issues-based framework for reviewing processes and products, and applies the framework in a review of RIM state-of-the-art. Finally, it presents seven researc ...

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and design, composite system, deficiency driven design, dependency analysis, distributed intentionality, interaction analysis, software cost reduction (SCR)., system architecture, system specification, viewpoints

8 Lineage retrieval for scientific data processing: a survey

Rajendra Bose, James Frew
March 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 1
Publisher: ACM Press
Full text available: pdf(728.75 KB) Additional Information: full citation, abstract, references, index terms

Scientific research relies as much on the dissemination and exchange of data sets as on the publication of conclusions. Accurately tracking the lineage (origin and subsequent processing history) of scientific data sets is thus imperative for the complete documentation of scientific work. Researchers are effectively prevented from determining, preserving, or providing the lineage of the computational data products they use and create, however, because of the lack of a definitive model for lineage ...

Keywords: Data lineage, audit, data provenance, scientific data, scientific workflow

9 Universal access architecture for digital libraries

Francisco Alvarez-Cavazos, Roberto Garcia-Sanchez, David Garza-Salazar, Juan C. Lavariega, Lorena G. Gomez, Martha Sordia
October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**
Publisher: IBM Press
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In this paper we present a universal access architecture for digital libraries. Our architecture supports traditional fixed clients and mobile clients addressing the connection adaptation and limited resources challenges presented by mobile devices. We describe the requirements of universally available personal digital libraries and illustrate their applicability with a user scenario. These requirements are addressed by our universal access architecture, which targets to support multiple device ...

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Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost
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Ram Ramanathan, Martha Steenstrup

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Keywords: content-based addressing and routing, event notification, publish/subscribe

13 Object lessons learned from a distributed system for remote building monitoring and operation

Frank Olken, Hans-Arno Jacobsen, Chuck McParland, Mary Ann Piette, Mary F. Anderson

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10

Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe our experiences with the design, the deployment, and the initial operation of a distributed system for the remote monitoring and operation of multiple heterogeneous commercial buildings across the Internet from a single control center. Such systems can significantly reduce building energy usage.Our system is distinguished by its ability to interface to multiple heterogeneous legacy building Energy Management Control Systems (EMCSs), its use of the Common Object Request ...

14 Run-time adaptation in river

Remzi H. Arpaci-Dusseau
February 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(849.04 KB) Additional Information: full citation, abstract, references, index terms

We present the design, implementation, and evaluation of run-time adaptation within the River dataflow programming environment. The goal of the River system is to provide adaptive mechanisms that allow database query-processing applications to cope with performance variations that are common in cluster platforms. We describe the system and its basic mechanisms, and carefully evaluate those mechanisms and their effectiveness. In our analysis, we answer four previously unanswered and important que ...

Keywords: Performance availability, clusters, parallel I/O, performance faults, robust performance, run-time adaptation

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David Liu, Jun Peng, Kincho H. Law, Gio Wiederhold
March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**
Publisher: ACM Press
Full text available: pdf(254.77 KB) Additional Information: full citation, abstract, references, index terms

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Keywords: active mediation, direct data transmission, handheld services, mobile class, service integration, web services

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Juergen Haas, Jeffrey S. Aaronson, G. Christian Overton
December 1993 **Proceedings of the second international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(1.28 MB) Additional Information: full citation, references, index terms

17 Application-controlled demand paging for out-of-core visualization
Michael Cox, David Ellsworth
October 1997 **Proceedings of the 8th conference on Visualization '97**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.46 MB) Additional Information: full citation, references, citings, index terms
Publisher Site

Keywords: computational fluid dynamics, out-of-core visualization, visualization

18 Securing a global village and its resources: baseline security for interconnected signaling system #7 telecommunications networks

Hank M. Kluepfel

December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, index terms

The resulting national focus on Network Integrity issues, spawned the development of an industry commitment to affect and realize a minimum security baseline for interconnected SS7 networks. In addition the affected carriers in those outage have accelerated their pursuit of secure solutions to today's intelligent networking.[2]This paper will focus on the development of the baseline and the current effort to take the baseline into national, e.g., National Ins ...

19 Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne

July 1985 **ACM SIGART Bulletin**, Issue 93

Publisher: ACM Press

Full text available: pdf(5.13 MB) Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

20 A survey of peer-to-peer content distribution technologies

Stephanos Androutsellis-Theotokis, Diomidis Spinellis

December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4

Publisher: ACM Press

Full text available: pdf(517.77 KB) Additional Information: full citation, abstract, references, index terms

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. Peer-to-peer architectures are characterized by their ability to adapt to failures and accommodate transient populations of nodes while maintaining acceptable connectivity and performance.Content distribution is an important peer-to-peer application ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

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1 Architectures: Achieving media portability through local content translation and end-to-end rights management

David W. Kravitz, Thomas S. Messerges

November 2005 **Proceedings of the 5th ACM workshop on Digital rights management DRM '05**

Publisher: ACM Press

Full text available: pdf(376.29 KB) Additional Information: full citation, abstract, references, index terms

The problem addressed in this paper is that of DRM interoperability. The term DRM interoperability, as used here, refers to approaches that provide for the transfer, from one "upstream" DRM system to another "downstream" DRM system, of DRM protected content and an associated license. We introduce the concept of a Rights Issuer Module (RIM) that is functionally situated in the home network between the upstream device (which includes an upstream-DRM agent) and downstream devices (which each includ ...

Keywords: MPEG-21, NEMO, copyright protection, coral, digital content, digital rights management, export, import, interoperability, open mobile alliance, security

2 High-speed local area networks and their performance: a survey

Bandula W. Abeysundara, Ahmed E. Kamal

June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(3.83 MB) Additional Information: full citation, abstract, references, citings, index terms, review

At high data transmission rates, the packet transmission time of a local area network (LAN) could become comparable to or less than the medium propagation delay. The performance of many LAN schemes degrades rapidly when the packet transmission time becomes small comparative to the medium propagation delay. This paper introduces LANs and discusses the performance degradation of LANs at high speeds. It surveys recently proposed LAN schemes designed to operate at high data rates, including the ...

Keywords: access schemes, computer networks, data communication, medium access protocols, optical fiber networks

3

X-NET: a dual bus fiber-optic LAN using active switches

A. E. Kamal, B. W. Abeysundara

August 1989 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols SIGCOMM '89**, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms

X-Net is a new local area network based on the dual, unidirectional bus topology. Stations are connected to two fiber-optic busses using active switches. At light load, X-Net behaves as a random access scheme. With increasing load, transmissions are done in an orderly manner, arranged into cycles. The main advantage of X-Net is its superior channel utilization and delay performance, compared to other bus schemes. The packet delay is bounded at all loads. Performance is shown to b ...

4 Secure group management: Secure multicast groups on ad hoc networks

T. Kaya, G. Lin, G. Noubir, A. Yilmaz

October 2003 **Proceedings of the 1st ACM workshop on Security of ad hoc and sensor networks**

Publisher: ACM Press

Full text available: pdf(212.24 KB) Additional Information: full citation, abstract, references, index terms

In this paper we address the problem of secure multicast of data streams over a multihop wireless ad hoc network. We propose a dynamic multicast group management protocol that aims at solving problems that are specific to ad hoc networks such as mobility, unreliable links, and cost of multihop communication. The main idea is to have group members actively participate to the security of the multicast group, therefore reducing the communication and computation load on the source. Since the group s ...

Keywords: MANET, multihop ad hoc, secure multicast, tracking

5 Special issue on wireless pan & sensor networks: Design and analysis of Hybrid Indirect Transmissions (HIT) for data gathering in wireless micro sensor networks

Benjamin J. Culpepper, Lan Dung, Melody Moh

January 2004 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(440.82 KB) Additional Information: full citation, abstract, references

Sensor networks have many potential applications in biology, physics, medicine, and the military. One major challenge in sensor networks is to maximize network life under the constraint of limited power supply. The paper addresses energy-efficiency in the context of routing and data gathering. A new protocol is proposed: Hybrid Indirect Transmission (HIT). HIT is based on a hybrid architecture that consists of one or more clusters, each of which is based on multiple, multi-hop indirect transmiss ...

6 Design, analysis, and implementation of DVSR: a fair high-performance protocol for packet rings

Violeta Gambiroza, Ping Yuan, Laura Balzano, Yonghe Liu, Steve Sheafor, Edward Knightly

February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1

Publisher: IEEE Press

Full text available: pdf(671.81 KB) Additional Information: full citation, abstract, references, citings, index terms

The Resilient Packet Ring (RPR) IEEE 802.17 standard is a new technology for high-speed

backbone metropolitan area networks. A key performance objective of RPR is to simultaneously achieve high utilization, spatial reuse, and fairness, an objective not achieved by current technologies such as SONET and Gigabit Ethernet nor by legacy ring technologies such as FDDI. The core technical challenge for RPR is the design of a bandwidth allocation algorithm that dynamically achieves these three properti ...

Keywords: dynamic bandwidth allocation, fairness, metro rings, scheduling

7 Improving TCP performance over asymmetric networks

Ivan Tam Ming-Chit, Du Jinsong, Weiguo Wang
July 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 3
Publisher: ACM Press
Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, citings, index terms

Bandwidth asymmetry is quite common among modern networks; e.g., ADSL, cable TV, wireless, and satellite link with a terrestrial return path. In these networks, the bandwidth over one direction can be orders of magnitude smaller than that over the other. The performance of TCP transfer in the high bandwidth direction can be severly reduced by the delay acknowledgment packets experienced in the reverse direction. In this paper, we describe our proposed solution ACE (Acknowledgement Based on ...

Keywords: ADSL, Ack filtering, TCP, asymmetric networking, cable modem, congestion window estimation

8 A priority scheme for the IEEE 802.14 MAC protocol for hybrid fiber-coax networks

Mark D. Corner, Jörg Liebeherr, Nada Golmie, Chatschik Bisdikian, David H. Su
April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2
Publisher: IEEE Press
Full text available: pdf(300.06 KB) Additional Information: full citation, references, citings, index terms

Keywords: local area networks, quality-of-service

9 Sharing the "cost" of multicast trees: an axiomatic analysis

Shai Herzog, Scott Shenker, Deborah Estrin
December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6
Publisher: IEEE Press
Full text available: pdf(388.59 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: Internet economics, cost allocation, cost sharing, multicast, network accounting, quality of service

10 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press

Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

11 Information systems outsourcing: a survey and analysis of the literature

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka
November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

12 Sharing the "cost" of multicast trees: an axiomatic analysis

Shai Herzog, Scott Shenker, Deborah Estrin
October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, citings, index terms

Given the need to provide users with reasonable feedback about the "costs" their network usage incurs, and the increasingly commercial nature of the Internet, we believe that the allocation of cost among users will play an important role in future networks. This paper discusses cost allocation in the context of multicast flows. The question we discuss is this: when a single data flow is shared among many receivers, how does one split the cost of that flow among the receivers? Multicast routing i ...

13 Architecture: Fast and fair: data-stream quality of service

Thomas Y. Yeh, Glenn Reinman
September 2005 **Proceedings of the 2005 international conference on Compilers, architectures and synthesis for embedded systems CASES '05**

Publisher: ACM Press

Full text available: pdf(318.10 KB) Additional Information: full citation, abstract, references, index terms

Chip multiprocessors have the potential to exploit thread level parallelism, particularly in the context of embedded server farms where the available number of threads can be quite high. Unfortunately, both per-core and overall throughput are significantly impacted by the organization of the lowest level on-chip cache. On-chip caches for CMPs must be able to handle the increased demand and contention of multiple cores. To complicate the problem, cache demand changes dynamically with phases chang ...

Keywords: CMP, NUCA, PDAS, QOS, adaptive, bandwidth, cache, chip multiprocessor, cluster, data-stream, distributed, embedded, memory wall, migration, non-uniform

access, partition, per thread degradation, phase

14 Universal access architecture for digital libraries

Francisco Alvarez-Cavazos, Roberto Garcia-Sanchez, David Garza-Salazar, Juan C. Lavariega, Lorena G. Gomez, Martha Sordia

October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**

Publisher: IBM Press

Full text available: pdf(399.35 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present a universal access architecture for digital libraries. Our architecture supports traditional fixed clients and mobile clients addressing the connection adaptation and limited resources challenges presented by mobile devices. We describe the requirements of universally available personal digital libraries and illustrate their applicability with a user scenario. These requirements are addressed by our universal access architecture, which targets to support multiple device ...

15 The Click modular router

Robert Morris, Eddie Kohler, John Jannotti, M. Frans Kaashoek

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, citings, index terms

Click is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called *elements.* Individual elements implement simple router functions like packet classification, queueing, scheduling, and interfacing with network devices. Complete configurations are built by connecting elements into a graph; packets flow along the graph's edges. Several features make individual elements more powerful and complex configuration ...

16 Predictability requirements of a soft modem

Michael B. Jones, Stefan Saroiu

June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '01**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings

Soft Modems use the main processor to execute modem functions traditionally performed by hardware on the modem card. To function correctly, soft modems require that ongoing signal processing computations be performed on the host CPU in a timely manner. Thus, signal processing is a commonly occurring background real-time application---one running on systems that were not designed to support predictable real-time execution. This paper presents a detailed study of the performance characteris ...

Keywords: CPU scheduling, Rialto, Rialto/NT, Windows 2000, Windows NT, open real-time system, real-time, signal processing, soft devices, soft modem

17 Locating internet bottlenecks: algorithms, measurements, and implications

Ningning Hu, Li (Erran) Li, Zhuoqing Morley Mao, Peter Steenkiste, Jia Wang

August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and**

protocols for computer communications SIGCOMM '04, Volume 34 Issue 4
Publisher: ACM Press
Full text available: pdf(395.45 KB) Additional Information: full citation, abstract, references, index terms

The ability to locate network bottlenecks along end-to-end paths on the Internet is of great interest to both network operators and researchers. For example, knowing where bottleneck links are, network operators can apply traffic engineering either at the interdomain or intradomain level to improve routing. Existing tools either fail to identify the *location* of bottlenecks, or generate a large amount of probing packets. In addition, they often require access to both end points. In this pa ...

Keywords: active probing, available bandwidth, bottleneck location, packet train

18 Transport II: Policing congestion response in an internetwork using re-feedback

Bob Briscoe, Arnaud Jacquet, Carla Di Cairano-Gilfedder, Alessandro Salvatori, Andrea Soppera, Martin Koyabe
August 2005 **Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communica tions SIGCOMM '05**
Publisher: ACM Press
Full text available: pdf(361.70 KB) Additional Information: full citation, abstract, references, index terms

This paper introduces a novel feedback arrangement, termed re-feedback. It ensures metrics in data headers such as time to live and congestion notification will arrive at each relay carrying a truthful prediction of the remainder of their path. We propose mechanisms at the network edge that ensure the dominant selfish strategy of both network domains and end-points will be to set these headers honestly and to respond correctly to path congestion and delay, despite conflicting interests. Although ...

Keywords: QoS, characterisation, congestion, incentives, policing

19 PixelFlow: the realization

John Eyles, Steven Molnar, John Poulton, Trey Greer, Anselmo Lastra, Nick England, Lee Westover
August 1997 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on Graphics hardware**
Publisher: ACM Press
Full text available: pdf(1.54 MB) Additional Information: full citation, references, citings, index terms

Keywords: compositing, deferred shading, object-parallel, rendering, scalable

20 Policy tree multicast routing: an extension to sparse mode source tree delivery

Horst Hodel
April 1998 **ACM SIGCOMM Computer Comm unication Review**, Volume 28 Issue 2
Publisher: ACM Press
Full text available: pdf(2.41 MB) Additional Information: full citation, abstract, citings, index terms

Bandwidth-sensitive multicast delivery controlled by routing criteria pertinent to the actual traffic flow is very costly in terms of router state and control overhead and it scales poorly towards larger, wide-area networks. PIM-SM (Protocol-independent Multicast - Sparse Mode) has been introduced as a simple, flexible and scalable concept for Internet-wide multicasting. Yet, PIM's efficiency potential (like that of alternative wide-area multicast concepts) can only be fully exploited if it is b ...

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IEEE CNF	IEEE Conference Proceeding
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IEEE STD	IEEE Standard

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Cheng, Y.; Zhuang, W.; Leon-Garcia, A.; Hu, R.Q.;
Broadband Networks, 2005 2nd International Conference on
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Wong, E.; Chang-Joon Chae;
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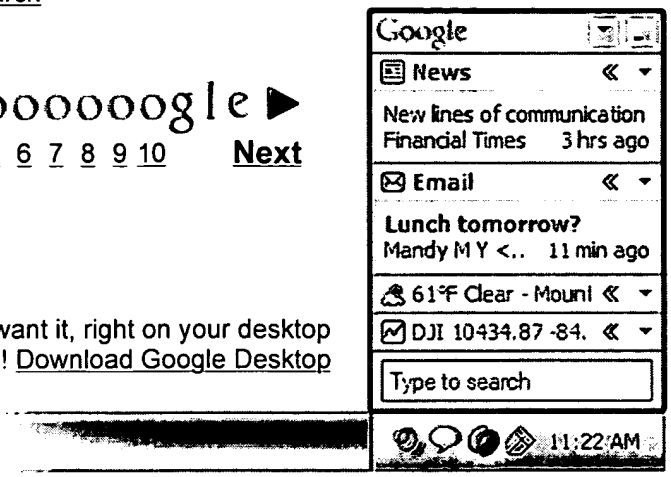
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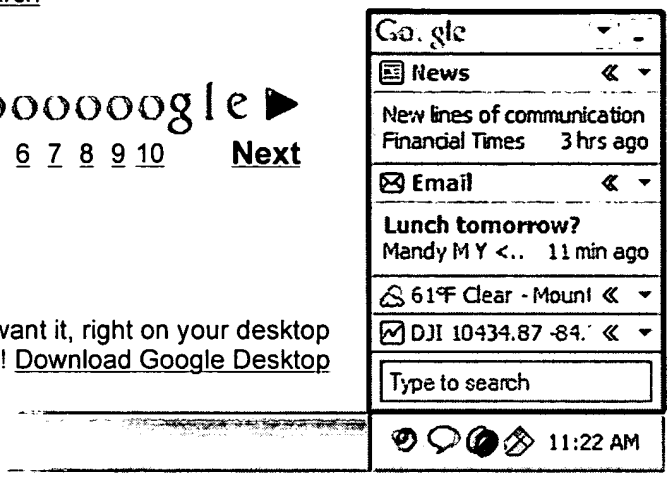
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